

## Product datasheet for **AP21034PU-N**

### **GATA1 Rabbit Polyclonal Antibody**

#### **Product data:**

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Applications:           | IHC  |
| Recommended Dilution:   | <b>Immunohistochemistry on paraffin sections</b> 1/50 - 1/200.   |
| Reactivity:             | Human, Mouse, Rat  |
| Host:                   | Rabbit   |
| Clonality:              | Polyclonal   |
| Specificity:            | This antibody detects endogenous levels of GATA-1 protein.<br>(region surrounding Thr148)  |
| Formulation:            | Phosphate buffered saline (PBS), pH 7.2.<br>State: Aff - Purified<br>State: Liquid purified Ig fraction<br>Preservative: 0.05% sodium azide    |
| Concentration:          | 1.0 mg/ml  |
| Purification:           | Affinity chromatography (> 95% (by SDS-PAGE)   |
| Conjugation:            | Unconjugated   |
| Storage:                | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing.                           |
| Stability:              | Shelf life: one year from despatch.  |
| Predicted Protein Size: | ~ 43 kDa   |
| Gene Name:              | GATA binding protein 1   |
| Database Link:          | <a href="#">Entrez Gene 14460 Mouse</a> <a href="#">Entrez Gene 25172 Rat</a> <a href="#">Entrez Gene 2623 Human</a><br><a href="#">P15976</a> |



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**Background:**

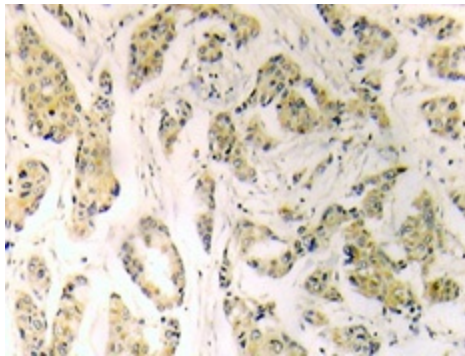
Members of the GATA family share a conserved zinc finger DNA-binding domain and are capable of binding the WGATAR consensus sequence. GATA-1 is erythroid-specific and is responsible for the regulated transcription of erythroid genes. It is an essential component in the generation of the erythroid lineage. GATA-2 is expressed in embryonic brain and liver, HeLa and endothelial cells, as well as erythroid cells. Studies with a modified GATA consensus sequence, AGATCTTA, have shown that GATA-2 and GATA-3 recognize this mutated consensus while GATA-1 has poor recognition of this sequence. This indicates broader regulatory capabilities of GATA-2 and GATA-3 than GATA-1. GATA-3 is highly expressed in T lymphocytes. GATA-4, GATA-5 and GATA-6 comprise a subfamily of transcription factors. GATA-4 and GATA-6 are found in heart, pancreas and ovary; lung and liver tissues exhibit GATA-6, but not GATA-4, expression. GATA-5 expression has been observed in differentiated heart and gut tissues and is present throughout the course of development in the heart.

**Synonyms:**

GATA-1, ERYF1, GF1, Erythroid transcription factor, Eryf1, GATA-binding factor 1, GATA-1, GF-1, NF-E1 DNA-binding protein

**Protein Families:**

Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors

**Product images:**

Immunohistochemistry (IHC) analyzes of GATA-1 antibody (Cat.-No.: AP21034PU-N) in paraffin-embedded human breast carcinoma tissue.